



Conn. Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Regular Fair Awards - Finalists

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Sorted by:
- Fair Category
- Finalist standing in regular fair (1st, 2nd, etc)
- Project number

Life Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

3042 Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels

Student(s) Emily Philippides **Grade** 12 **Town** Greenwich

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque

Greenwich Greenwich High School Mr. Bramante

3087 Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis

Student(s) Hiba Hussain **Grade** 10 **Town** Old Greenwich

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

3095 Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay

Student(s) Joe Konno **Grade** 11 **Town** Greenwich

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Andrew Bramante

3103 From Tobacco to a Chemical Cocktail: A Smoker's E-cigarette Alternative May Lead to Bronchiolitis Obliterans

Student(s) Hannah Goldenberg **Grade** 9 **Town** Old Greenwich

- * Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
- * American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3103 Amplifying Heat Shock Protein Expression in Glycine max for cross protection against substandard growing conditions.

Student(s) Evan O'Keefe **Grade** 12 **Town** Fairfield

- * Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Windsor The Loomis Chaffee School Koby Osei-Mensah

3005 Combating Food Deserts with Bean Urban Agriculture

Student(s) **Julianna Lee** **Grade** 11 **Town** Windsor

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

Norwich Norwich Technical High School Dr.Morin

3017 Can probiotic yeast be used to decrease the severity of Type 2 Diabetes symptoms in a Drosophila melanogaster disease model?

Student(s) **Gianpierre Roche** **Grade** 12 **Town** Willimantic

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology

Ridgefield Ridgefield High School Ryan Gleason

3018 Testing the Effectiveness of Various Shading Materials on Mock Leatherback Sea Turtle Nests

Student(s) **Annabelle Colao** **Grade** 12 **Town** Ridgefield

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

New Haven Wilbur Cross High School Nick Farrell & Joseph Zebrowski

3059 Do rewards affect neuro-electrical resistance?

Student(s) **Carlin Eswarakumar** **Grade** 11 **Town** New Haven

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Greenwich Greenwich High School Andrew Bramante

3064 Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria

Student(s) **Bennett Hawley** **Grade** 11 **Town** Cos Cob

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

3070 Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation

Student(s) Dante Minichetti **Grade** 12 **Town** Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Norwich Norwich Technical High School Dr. Morin

3089 The Effect of the FAAH Gene on Alcohol Consumption and Inhibition in C. elegans

Student(s) Ryan Stollman **Grade** 12 **Town** Colchester

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion

Waterford Waterford High School Michael O'Connor

3096 Development of a Novel Copepod-Based Mosquito Ovitrap

Student(s) Sophie Wang **Grade** 12 **Town** Waterford

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * J.A. Augustine Award --- \$100 for excellence in biology
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

Greenwich Greenwich High School Andrew Bramante

3106 Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality

Student(s) Charlotte Hallisey **Grade** 10 **Town** Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

Life Sciences - High School Teams

East Lyme East Lyme High School Frederic Clark

3543 Investigation of Spatial Learning in Apterous Drosophila Melanogaster Using a Novel Behavioral Assay

Student(s) Andrew Zhang **Grade** 12 **Town** East Lyme

Mingfei Duan **Grade** 12 **Town** East Lyme

Alexa Stewart **Grade** 12 **Town** Niantic

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque

Greenwich Brunswick School Dana Lee Montanez

3546 A Lense to Explore Life on Other Planets: Using Targeted Genome Editing Technologies to Test Survival in Extraterrestrial Environments

Student(s) Thomas Foley **Grade** 11 **Town** Greenwich

Thomas Kimberlin **Grade** 11 **Town** Greenwich

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- * The Jackson Laboratory --- \$500 - The Jackson Laboratory Award for Excellence in Genomics Related Research

Greenwich Brunswick School Jarrett Shine

3515 Improving Durability and Strength of Bombyx mori Silk by Fortifying Primary Food Source

Student(s) Lucas Delgado **Grade** 10 **Town** Riverside

Alexander Burdick **Grade** 10 **Town** Riverside

- * Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Life Sciences - Middle School 7th Grade

New Haven Worthington Hooker Middle School Mr. Jones

2010 Underwater Battle: The Effect of Pollution on Brine Shrimp

Student(s) Athena Brown **Grade 7** **Town** New Haven

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

Greenwich Greenwich Catholic School Lutz

2020 Hydrogen Power

Student(s) Sebastian Henao **Grade 7** **Town** Stamford

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

Bridgeport Multicultural Magnet School Corina Ciuflea

2031 To grow or not to grow

Student(s) Savannah Guzman **Grade 7** **Town** Bridgeport

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion

Hartford Environmental Sciences Magnet School at Mary Becca Hays

2029 Informal Soldiers

Student(s) William Visalga **Grade 7** **Town** Newington

- * Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

Windsor Madina Academy Zaide Ibic

2009 An Easy and Economic Way of Filtering Salt Water

Student(s) Abdulmalik Ajdinoski **Grade 7** **Town** Windsor Locks

- * Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

Fairfield Assumption Catholic School Mrs. Strazza

2008 Plants Jammin!

Student(s) Cadae Thomas **Grade 7** **Town** Bridgeport

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

New Haven Betsy Ross Arts Magnet School K.Cichus

2014 Clean up your act

Student(s) Josiah Williamson **Grade 7** **Town** New Haven

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

Newtown St. Rose of Lima School Mrs. Anastasia Damalas

2019 Does PH affect the growth of grass?

Student(s) Julia Cirone **Grade 7** **Town** Newtown

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion

Life Sciences - Middle School 8th Grade

West Hartford St. Timothy Middle School Danielle Locke

2528 Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass

Student(s) Grace Flynn **Grade 8** **Town** West Hartford

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * The Karen J. Howell Middle School Award for "Learning and Serving"
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

Suffield Suffield Middle School Mr. Mitchell Charkiewicz

2502 The Effect of Musicianship to Speed of Learning Languages

Student(s) Isabella Jiang **Grade 8** **Town** Suffield

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS

Cheshire St. Bridget School Mrs. Carroll

2537 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup

Student(s) Kavin Kathir **Grade 8** **Town** Cheshire

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

[SchTown] [School] [Teacher]
 [Proj#] [Project Title]

Danbury Westside Middle School Academy Jonathan Neuhausel

2525 Impact of natural and chemical preservatives to extend the shelf life of apple cider.

Student(s) **Mathew Mathew** **Grade 8** **Town** Danbury

- * Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

New Haven Betsy Ross Arts Magnet School Roisin Macdonald

2509 Brushing Bacteria

Student(s) **Kendall Evans** **Grade 8** **Town** Ansonia

- * Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy

Stamford Independent - The Harvey School, Katonah, NY Ms. Marcie Hajem

2507 Sugars in foods: implications for Diabetics

Student(s) **Wendy Lichtenberg** **Grade 8** **Town** Stamford

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

Danbury St. Gregory the Great School Christine Fahey

2514 Bloom of Doom

Student(s) **Melanie Seaman** **Grade 8** **Town** New Fairfield

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Falls Village Lee H. Kellogg School Joseph Markow

2527 How Distance from Compost Affects Soil Nutrient Levels

Student(s) **Avery Tripp** **Grade 8** **Town** Falls Village

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

Life Sciences - Middle School Teams

Windsor Madina Academy Zaide Ibic

1009 Investigating short-term effect of different video games on the body.

Student(s) **Ahmad Zoghol** **Grade 7** **Town** Enfield

Amer Kabatilo **Grade 7** **Town** Windsor

Zain Kabatilo **Grade 7** **Town** Windsor

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS

Danbury St. Joseph School Jennifer Reilly

1001 Growing, Growing, Gone! A Fertilizer Experiment

Student(s) **Christian Jeffers** **Grade 7** **Town** Danbury

Georen Chirayil **Grade 7** **Town** Danbury

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Stamford Bi-Cultural Day School Christopher Graseck

1005 Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants

Student(s) Zachary Isaacs Grade 7 Town Stamford
David Klein Grade 7 Town Stamford

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Weston Weston Middle School Melanie Welsh

1004 How Can Climate Change Affect the Rate of Evolution on Baker's Yeast's

Student(s) Lecia Sun Grade 8 Town Weston
Brynne McGee Grade 8 Town Weston

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Danbury St. Gregory the Great School Christine Fahey

1013 Now you "C" it, now you don't

Student(s) Mary Grace Fontana Grade 7 Town Danbury
Sarina Steinerd Grade 7 Town Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Danbury St. Joseph School Jennifer Reilly

1014 Water you drinking?

Student(s) Talia Pereira Grade 7 Town Brookfield
Sadie Jarboe Grade 7 Town Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Physical Sciences - High School Individual

New Haven Wilbur Cross High School Dr. Bernard Hulin

6061 Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer

Student(s) Maya Geradi Grade 12 Town New Haven

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg

Greenwich Greenwich High School Andrew Bramante

6051 Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures

Student(s) Raina Jain Grade 10 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

6033 Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface

Student(s) Nicholas Liu **Grade** 11 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

Greenwich Greenwich High School Andrew Bramante

6090 Simple Gold Nanoparticle-based Colorimetric Detection of Escherichia coli in a Tap Water Matrix via Microfluidic Chip Assay

Student(s) Amit Ramachandran **Grade** 12 **Town** Stamford

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque

Greenwich Brunswick School Dana Montanez

6001 Diagnosing Knee Osteoarthritis using Artificial Neural Networks

Student(s) Matthew Pillari **Grade** 11 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque

Darien Darien High School David Lewis

6014 Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies

Student(s) Daniel Pfrommer **Grade** 12 **Town** Darien

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Intel Excellence in Computer Science Award --- \$200 & certificate

Glastonbury Glastonbury High School Diane Pintavalle

6022 ENGINEERING AN ENZYME RESPONSIVE GENETIC DELIVERY VEHICLE

Student(s) Tushar Sondhi **Grade** 12 **Town** South Glastonbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6023 Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief

Student(s) Jamielyn Iquina **Grade** 12 **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

[SchTown] [School] [Teacher]
 [Proj#] [Project Title]

Glastonbury Glastonbury High School Diane Pintavalle

6025 Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds

Student(s) **Abhi Mohnani** **Grade 11** **Town** Glastonbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

Woodbridge Amity Regional High School Catherine Piscitelli

6047 The Impacts of pH on Ethene Degradation and Growth of Ethenotrophs

Student(s) **Jacob Feuerstein** **Grade 11** **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Greenwich Greenwich High School Mr. Bramante

6058 Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes

Student(s) **Nicholas Woo** **Grade 11** **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior

Windsor The Loomis Chaffee School Richard Kyung

6071 A Study on the Alternative Space Filling Curve

Student(s) **Jae Hyung Lee** **Grade 10** **Town** Windsor

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion

Greenwich Greenwich High School Andrew Bramante

6079 Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration

Student(s) **Melissa Woo** **Grade 10** **Town** Riverside

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

Manchester East Catholic High School Lesa Milas

6091 Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air

Student(s) **John Oei** **Grade 9** **Town** Hebron

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 3rd Place High School - \$200 Cash and Plaque
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

6098 Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges

Student(s) Verna Yin **Grade** 11 **Town** Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)

Physical Sciences - High School Teams

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6516 The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output

Student(s) Chris Rinaldi **Grade** 11 **Town** Enfield

Jean Pasato **Grade** 11 **Town** Middletown

Vishakh Talanki **Grade** 11 **Town** South Windsor

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place High School - \$300 Cash and Plaque
- * UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6501 Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.

Student(s) Srikar Godilla **Grade** 11 **Town** Newington

Cristian Rodriguez **Grade** 11 **Town** East Hartford

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000 (split for teams), Invite to CASE Annual Mtg
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * American Society for Metals - Hartford Chapter --- \$100 Check

[SchTown] [School] [Teacher]
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Windsor Greater Hartford Academy of Math and Science Michelle Bellinger

5030 Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems

Student(s) **Alexa Wilson** **Grade** 12 **Town** Rocky Hill
Preksha Gupta **Grade** 12 **Town** Rocky Hill
Sana Kasmani **Grade** 12 **Town** Rocky Hill

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Physical Sciences - Middle School 7th Grade

Wilton Middlebrook School Paige Randall

5017 The Buzzing Eye - Helping The Blind
(school submitted title - Supersonic Blind Helper)

Student(s) **Varun Vadhera** **Grade** 7 **Town** Wilton

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Zepke Award --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Bozrah Fields Memorial School Mrs. E. Brown

5027 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine

Student(s) **Alanna Brady** **Grade** 7 **Town** Bozrah

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

Glastonbury Smith Middle School Mary Coburn

5024 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions

Student(s) **Anika Ahilan** **Grade** 7 **Town** Glastonbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Junior
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering

[SchTown] [School] [Teacher]
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Greenwich Greenwich Country Day School Sam Rosenfeld

5031 A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.

Student(s) C. Brooks Harris **Grade 7** **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- * Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion

New Haven Betsy Ross Arts Magnet School Roisin Macdonald

5011 From Biomass To Biogas

Student(s) Matilda Pethrick **Grade 7** **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- * Energize CT/eesmart Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Groton Sacred Heart School Dr. Juan Pacheco

5009 How Do Mixtures of Chiral Substances Affect the Rotation of Plane Polarized Light

Student(s) Payton Noe **Grade 7** **Town** East Lyme

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

Newtown St. Rose of Lima School Mrs. Damalas

5026 Effect Of Energy Drinks on Tooth Enamel

Student(s) Nicholas Prieto **Grade 7** **Town** Newtown

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

Danbury St. Gregory the Great School Christine Fahey

5034 The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells

Student(s) Max Coisman **Grade 7** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Energize CT/eesmart Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- 1st Place Middle School - \$300 Cash and Trophy
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

Greens Farms Greens Farms Academy Mrs. Oshin

5036 The Traft

Student(s) William McGonagle **Grade 7** **Town** Southport

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Physical Sciences - Middle School 8th Grade

Danbury Westside Middle School Academy Jonathan Neuhausel

5547 Image Recognition to Diagnose Lyme Disease

Student(s) Khushi Parikh **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Danbury Westside Middle School Academy Jonathan Neuhausel

5523 Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine

Student(s) Timothy Chen **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathon Neuhausel

5527 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff

Student(s) Paloma Lenz **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

Stratford St. Mark School Mrs.Olins

5540 Are you a 'fan' of wind turbines?

Student(s) Kaitlyn Szczepanski **Grade 8** **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5546 The Portable Linux Terminal

Student(s) Sandra Correya **Grade 8** **Town** Bethany

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Trumbull Christian Heritage School Theresa Miller

5510 Aqua-Safe: Helping the World, One Bucket at a Time

Student(s) Alec Mota **Grade 8** **Town** Derby

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

West Hartford St. Timothy Middle School Mrs. Locke

5511 Don't Rock The Boat

Student(s) Brooke Barry **Grade 8** **Town** West Hartford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

West Hartford King Philip Middle School Robert Felekey

5512 Slip Hazard Alarm Robot H2OhNoBot

Student(s) Theodore Zhang **Grade 8** **Town** West Hartford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Trumbull Christian Heritage School Daniel Cote

5531 D.I.Y. Hovercraft: Lift and Propulsion

Student(s) Maxwell Barbagallo **Grade 8** **Town** Sandy Hook

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

New Haven Betsy Ross Arts Magnet School Mrs Macdonald

5539 Hovercraft

Student(s) Kaylee Fitzgerald **Grade 8** **Town** Naugatuck

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5550 Manual Tightening Prosthetic Hand

Student(s) Sage Paglia **Grade 8** **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5556 3D Printed Dog Prosthetic

Student(s) Karli Scianna **Grade 8** **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

[SchTown] [School] [Teacher]
 [Proj#] [Project Title]

Physical Sciences - Middle School Teams

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4015 Preventing SIDS From Suffocation

Student(s) **Ellina Medovnikov** **Grade 8** **Town** Woodbridge
Audrey Marin **Grade 8** **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Shelton Shelton Intermediate School Tina Genova

4006 Lets Bounce

Student(s) **Alexa Civale** **Grade 8** **Town** Shelton
Isabella Silvis **Grade 8** **Town** Shelton

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS

Baltic Sayles School Miss Roy

4018 Black Light Experiment

Student(s) **Brendan Bezanson** **Grade 7** **Town** Sprague
Hunter Bittman **Grade 7** **Town** Sprague

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS

Danbury St. Gregory the Great School Christine Fahey

4004 "Perpetual Motion" Or "Perpetual Failure"

Student(s) **Thomas Fanelli** **Grade 7** **Town** Danbury
Daniel Goetz **Grade 7** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

Fairfield St. Thomas Aquinas Catholic School Philip Flynn

4014 Desalination: A Clean Water Alternative

Student(s) **Andrew Cimmino** **Grade 7** **Town** Fairfield
Joshua Dixon **Grade 7** **Town** Bridgeport

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, , and \$25 Amazon gift card given by CSEF

Danbury St. Gregory the Great School Christine Fahey

4025 Wind vs Water

Student(s) **Anna Flaherty** **Grade 8** **Town** New Fairfield
Arshei Flores **Grade 8** **Town** New Milford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Energize CT/eesmarks Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

[SchTown] [School] [Teacher]
 [Proj#] [Project Title]

Bridgeport Geraldine Claytor Magnet Academy Logan Whitley

4026 How does the type of cup affect how long the coffee will stay hot?

Student(s)	Iris Rivera	Grade 7	Town Bridgeport
	Clementine Gnoto	Grade 7	Town Bridgeport
	Ahkiriah Johnson	Grade 7	Town Bridgeport

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion